DVR – LINUX

REAL TIME
Placa SV-2000

Quick User Guide

2nd Edition

DaTA: 3/12/2007

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1. Hardware Installation

1-1 SV2000 (16 Ch) DVR System Requirement

This Quick Installation Guide introduces how to install a 16 ch DVR system by using SV2000 capture card.

Based on different DVR firmware versions, SV2000 DVR card kit needs to specify the combination of "motherboard " and "hardware peripherals". Please refer to the Hardware compatible list in Appendix I according to the DVR firmware version you install.

Below is the V5.01 Motherboard compatible list.

- **V 5.01 Motherboard Compatible List**

Brand Name	Model	Chipset	# of PCI slot
ASUS	P5L-MX	Intel945G	2
ASUS	P5GZ-MX	Intel945GZ	2
Gigabyte	GA-945GCMX-S2	Intel 945GC	2
Gigabyte	GA-945PL-S3E	Intel 945PL	5

1-2 SV2000 Capture Card Kit Package Contents

SV2000 card kit includes,

1. One 16 Channel SV2000 Capture card (Fig.2-1).
2. One system module (DisklOnModule) burned with DVR firmware and one power cable for this module (Fig2-2)
3. Two Audio/Video Pigtail Cables:
   - Per cable includes eight video input terminals, two audio input terminals and one TV output terminal per cable (Fig2-3).
4. One special IDE cable for connecting the system module and internal CD-RW or DVD-R/RW. If you use the external CD-RW or DVD-R/RW(USB interface), you won't need this cable (Fig2-4).
5. Reset Cable for Watchdog function (Fig2-5).
6. Optional:
   - Alarm Input/Output Card: IO0404C

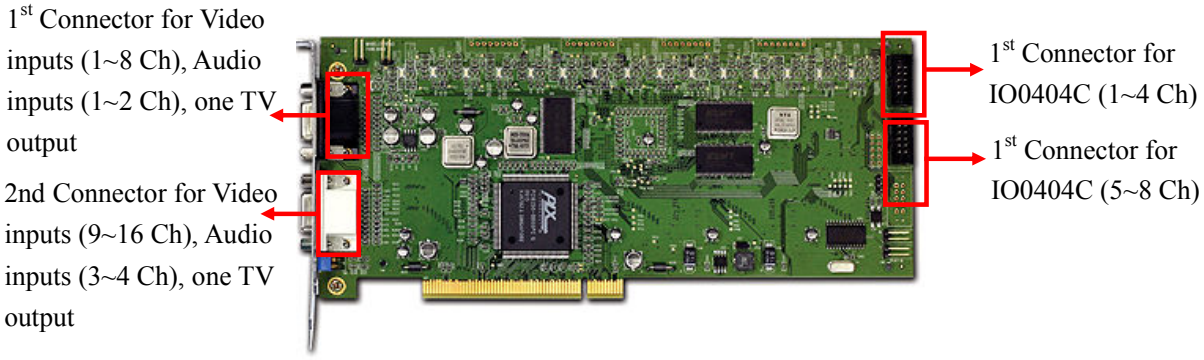
1st Connector for Video inputs (1~8 Ch), Audio inputs (1~2 Ch), one TV output
2nd Connector for Video inputs (9~16 Ch), Audio inputs (3~4 Ch), one TV output
1st Connector for IO0404C (1~4 Ch)
1st Connector for IO0404C (5~8 Ch)

Fig.2-1 SV2000 16 Ch Capture Card

Fig.2-2 System Module

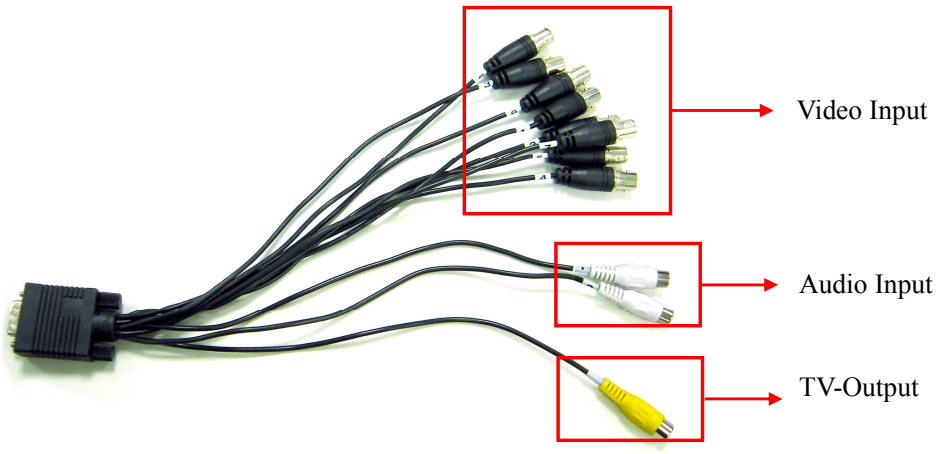

Fig.2-3 Audio/Video Cable

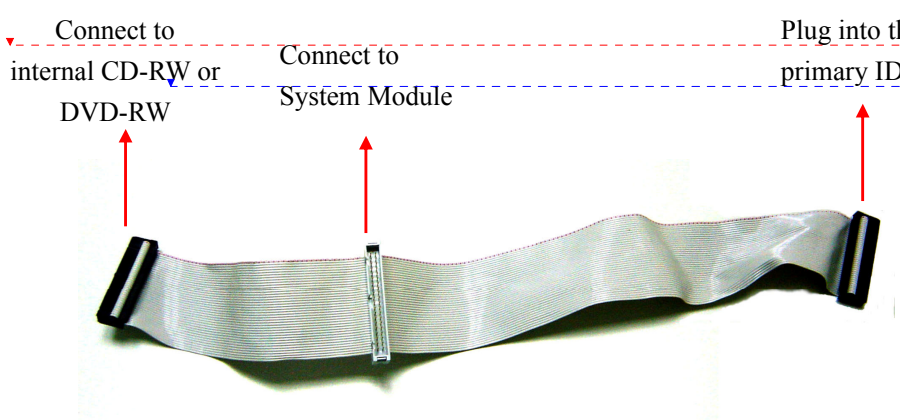

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Fig.2-4 Special IDE Cable

Fig. 2-5 Reset Cable (Watchdog)

1-3 Install the Capture Card

This section describes the installation procedures based on Asus P5L-MX motherboard (w/ Intel 945G chipset) as an example.

Please install SV2000 capture card as the photo (Fig 3-1) below:

1. Insert Capture Card into PCI slot.

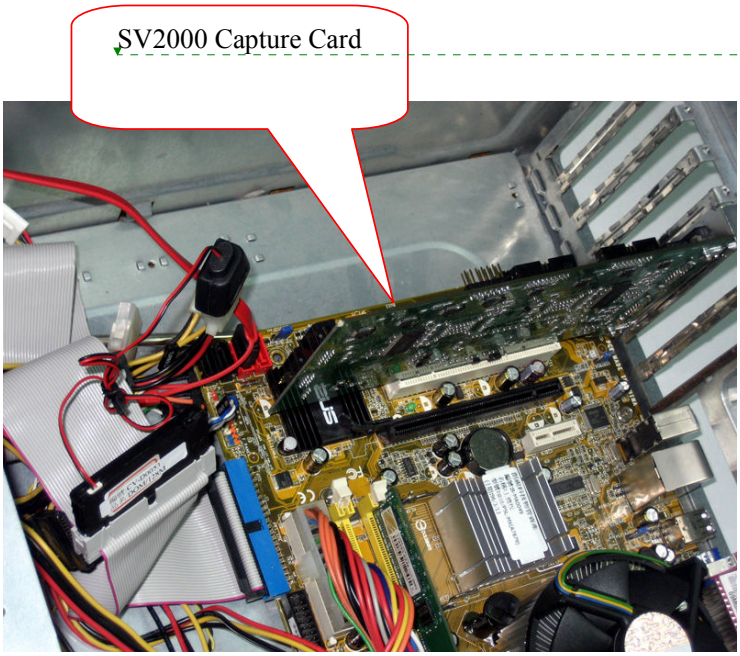


Fig 3-1 Install SV2000 capture card

2. Plug the **Reset cable.** Connect one terminal of **Reset cable** to the **Reset output** (2-pin) connector on capture card and connect the other terminal of **Reset** cable (2-pin) to the **Reset** connector on Motherboard to provide **Watchdog** function. (To enable watchdog function, you also need to activate watchdog in System Setting in DVR software. Please refer the user Manual)

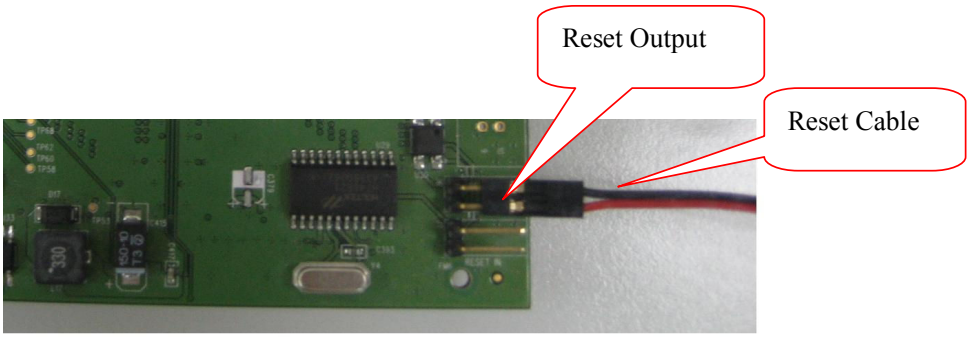


Fig3-2 Plug Reset Cable into Reset Output

!	**Note** 1.Please note that System module and HDD can't be installed in the same IDE cable. 2.We don't support IDE and SATA HDD installed in the same DVR system.

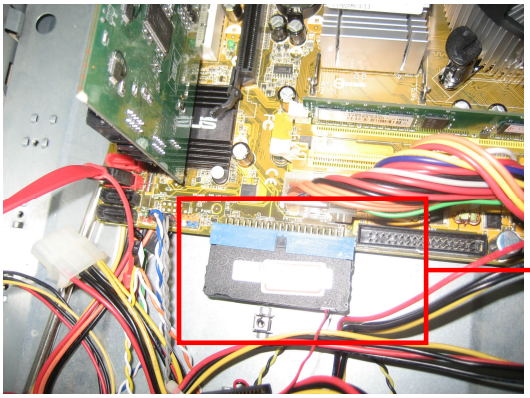
1-4 Install the System Module & Hard Disk

1-4-1 Install the System Module

The way of installing System Module depends if you want to install IDE burning device at the same time.

- **W/o installing IDE burning device**

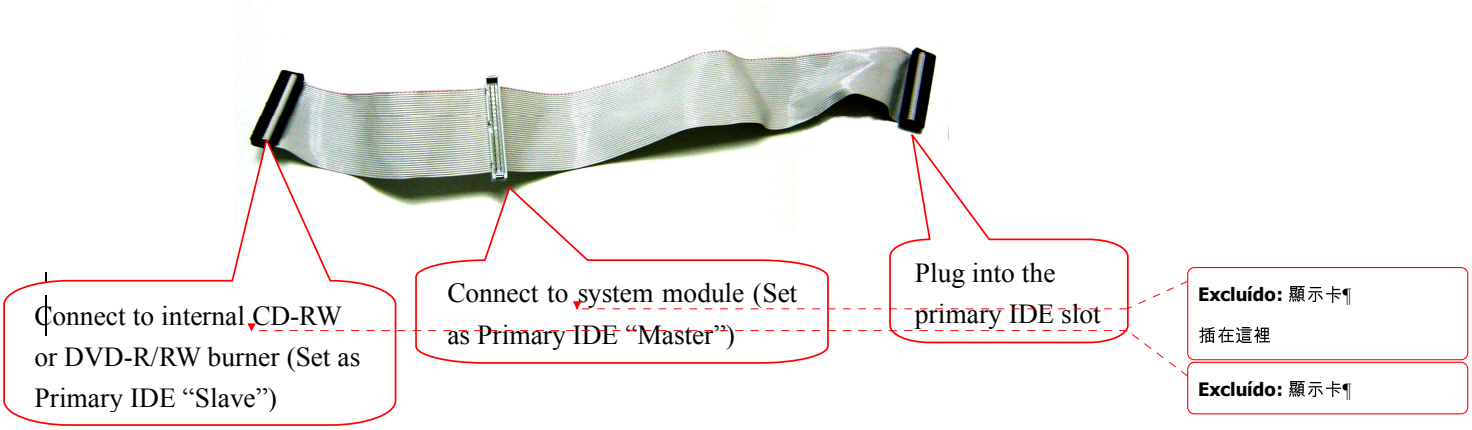
The connector of System Module is IDE interface. Because most of motherboards today are only equipped with one IDE connector, please directly plug the System Module into IDE slot and connect the D-type power line to power supply as the figure below. If your motherboard provides two IDE connectors, please connect the System Module to Primary IDE slot.



Plug the System Module to IDE connector directly

- **Install IDE burning device at the same time**

If you would also install the internal IDE CD-RW or DVD-R/RW burner to the DVR at the same time, please use the special cable (as the figure below) that is included in the shipping box to connect the system module (Default is set as IDE Master) and the internal CD-RW or DVD-R/RW (Please refer to the user manual of CD-RW/DVD-R/RW to set the jumper of the device as IDE Slave)


Connect to internal CD-RW or DVD-R/RW burner (Set as Primary IDE “Slave”)
Connect to system module (Set as Primary IDE “Master”)
Plug into the primary IDE slot
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1-4-2 Install Hard disk

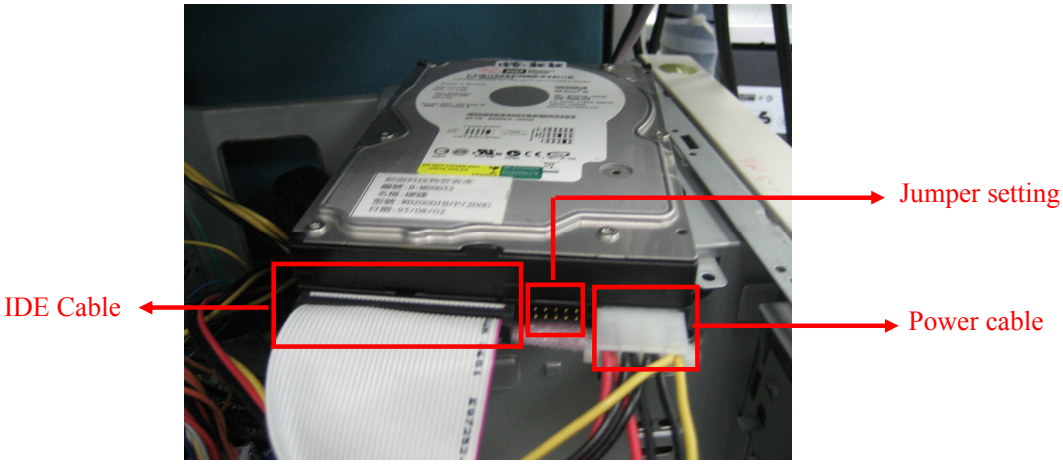
SV2000 V4.00 and above versions supports IDE and SATA HDD but can't support these two types of HDD installed in the system at the same time. That means if you install SATA & IDE HDD in one DVR system, DVR will only detect one HDD type. Therefore, you should install the same type of HDD in one DVR system. Because currently motherboard equipped with Intel 9XX and above chip only provides one IDE slot but with four SATA connectors and one IDE slot is already reserved for System module, we strongly recommend you to install SATA HDDs to have more HDD installation and quick data access.

The detail procedures are as below,

- **Install IDE HDD:**

If your motherboard provides two IDE slots and the number of HDD you wants to install is less then two HDDs, you can decide to install IDE HDDs in DVR. Because Primary IDE slot is reserved to System module, please connect the first IDE HDD to secondary IDE slot via IDE cable and set the HDD jumper as Secondary IDE "Master". If you install the 2nd IDE hard disk, please set it as Secondary IDE "Slave".

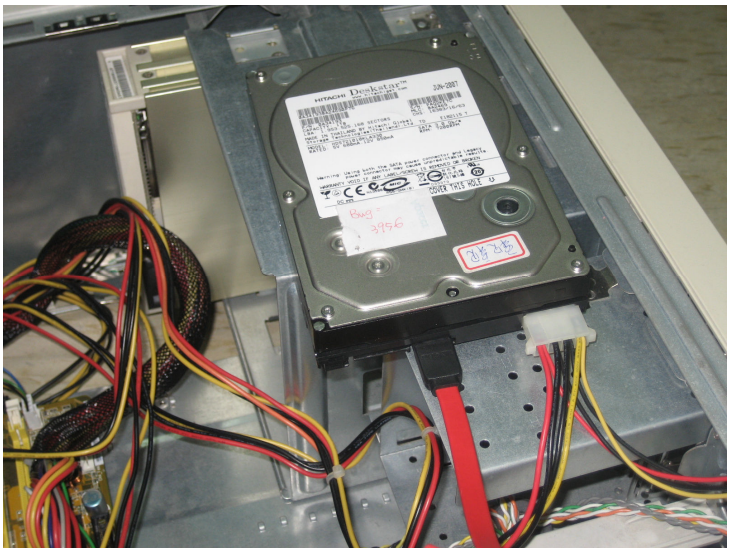
1. First, configure the jumper of hard disk as **Master** (refer to manual of hard disk)
2. Secondly, link hard disk with 40-pins parallel cable to the Secondary IDE slot



Please pay attention to the direction of the 40-pins parallel cable. Some cheap cable without "foolproof" may cause mistake. Normally, there is a red line marked on the 1st pin of the cable, which should be connected to 1st pin of hard disk and IDE slot.

- **Install SATA HDD**

Just connect one terminal of SATA cable to the back panel of HDD and connect the other terminal of SATA cable to the SATA connector on motherboard. For SATA HDD installation, you don't need to set HDD jumper as " Master" or "Slave". .



!	**Note** 3.Please note that System module and HDD can't be installed in the same IDE cable. 4.We don't support IDE and SATA HDD installed in the same DVR system.

1-5 Install Other Parts

1-5-1 CPU

ASUS P5L-MX has a Socket 775 for CPU.

1-5-2 DRAM

System's minimum requirement is 512MB.

1-5-3 VGA Card

Normally you don't need to install additional VGA card because most of motherboards equips with on-board VGA chip. However, if your motherboard doesn't provide this spec, you should install additional VGA card. Please refer to the "Chapter 1-9" to buy the suitable VGA card with compatible VGA chip.

1-5-4 Reset Button on Case

Please **DO NOT** attach the Reset Button to the reset pin of motherboard, which means, please do not enable reset function.

If users make the mistake to trigger the reset button, it will immediately shut down the whole machine abnormally and loose some records. However, if users push the "Power Button", the system could close all the opened files, and keep the integrity of records.

1-6 Configure BIOS Parameters

Due to heavy traffic between IO devices and motherboard, the optimum BIOS configuration is necessary for Digital Video Recorder system to have stable operation.

When you finish assembling Capture Cards, System Module, and Hard Disk, please connect the keyboard and mouse before turning on power for setting BIOS.

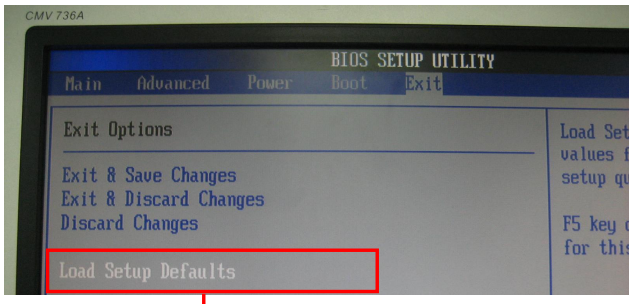
After power on, you will see a flash screen of display logo followed by a POST (power on self-test) screen with sentence “Hit **DEL** if you want to run SETUP”. Press **DEL** to enter BIOS setup menu.

There are only few keys used in this setting: Direction keys are used to select entities of functions. [Page Up], [Page Down], and [Tab] are used to switch options of function. Because we only recommend to use Gigabyte or Asus motherboard for better DVR performance, below we only take ASUS and Gigabyte motherboard as example of BIOS setting.

1-6-1 ASUS Motherboard BIOS Setting

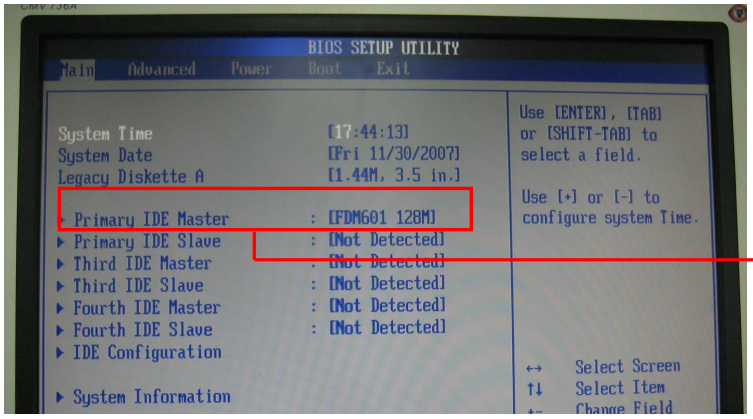
1-6-1-1 Step 1

Please select [Load Setup Defaults] in the sub-menu of “Exit” to load optimum setting and then please refer to the setting listed in the next.



1-6-1-2 Step 2

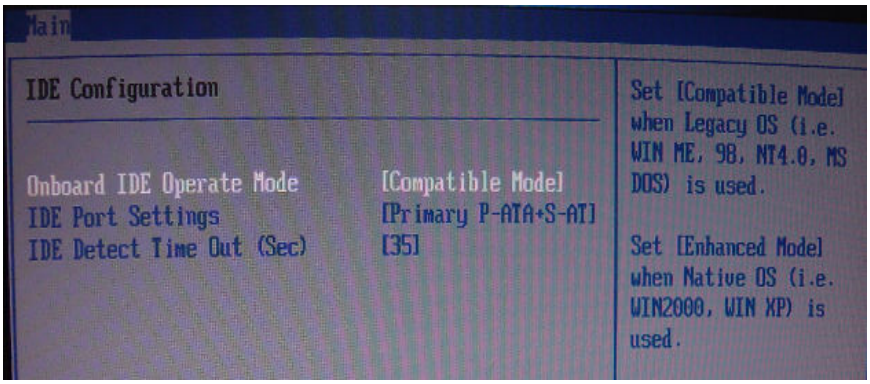
Go to the " Main" menu and make sure that M/B has already detected System Module [FDM601 128M] or [PQI IDE DiskOnModule]


BIOS SETUP UTILITY
Main Advanced Power Boot Exit
System Time [17:44:13]
System Date [Fri 11/30/2007]
Legacy Diskette A [1.44M, 3.5 in.]
Primary IDE Master : [FDM601 128M]
Primary IDE Slave : [Not Detected]
Third IDE Master : [Not Detected]
Third IDE Slave : [Not Detected]
Fourth IDE Master : [Not Detected]
Fourth IDE Slave : [Not Detected]
IDE Configuration
System Information
Use [ENTER], [TAB] or [SHIFT-TAB] to select a field.
Use [+] or [-] to configure system Time.
Select Screen
Select Item
System Module

1-6-1-3 Step 3

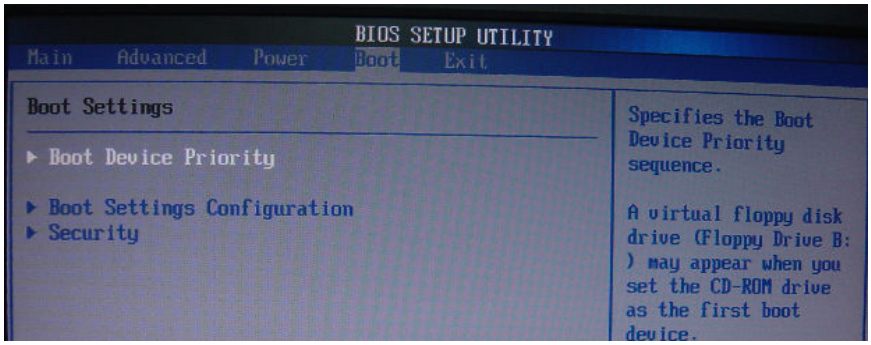
Based on default setting, change BIOS setting.

- Set "IDE Configuration"
  1. Set Onboard IDE Operate Mode as [Compatible Mode]
  2. Set Combined Mode Option as (Primary P-ATA + S-AT)

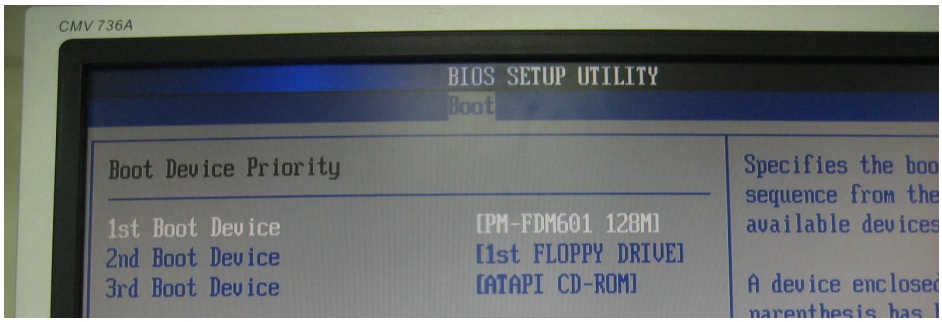

Main
IDE Configuration
Onboard IDE Operate Mode [Compatible Mode]
IDE Port Settings [Primary P-ATA+S-AT]
IDE Detect Time Out (Sec) [35]
Set [Compatible Mode] when Legacy OS (i.e. WIN ME, 98, NT4.0, MS DOS) is used.
Set [Enhanced Mode] when Native OS (i.e. WIN2000, WIN XP) is used.

- Set up "Boot" configuration

1. Go to "Boot Device Priority"


BIOS SETUP UTILITY
Main Advanced Power Boot Exit
Boot Settings
Boot Device Priority
Boot Settings Configuration
Security
Specifies the Boot Device Priority sequence.
A virtual floppy disk drive (Floppy Drive B:) may appear when you set the CD-ROM drive as the first boot device.

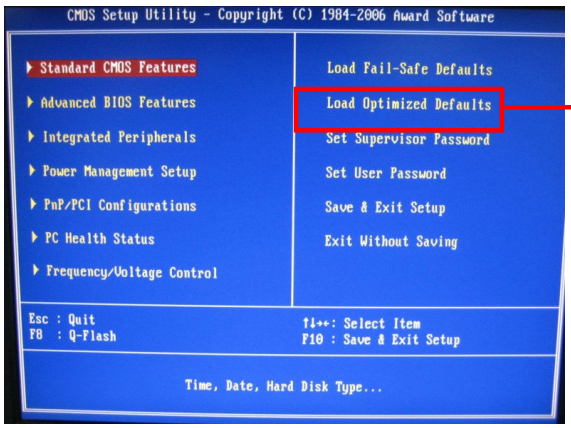
2. Set "1st Boot Device" as [FDM601 128M] or [PQI IDE DiskOnModule]



1-6-2 Gigabyte Motherboard BIOS Setting

1-6-2-1 Step 1

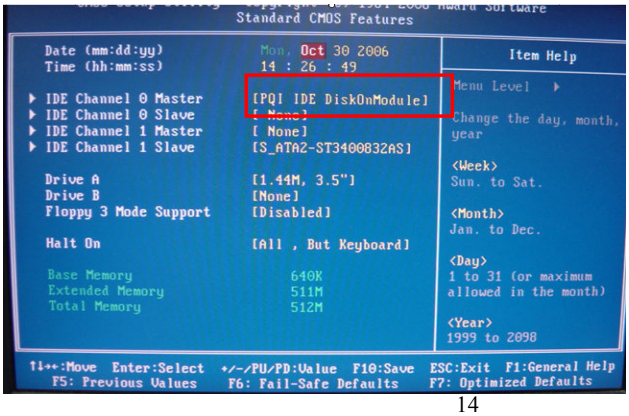
Once you are in BIOS Main Menu, please enter **[Load Optimize Default]** option in the main menu to load optimum setting and then please refer to the setting listed in the next section.



Load Optimized Default

1-6-2-2 Step 2

In BIOS Main menu, please enter "Standard CMOS Features" option to see the following menu. Please make sure M/B has detected System Module of [FDM601 128M] or [PQI IDE DiskOnModule]

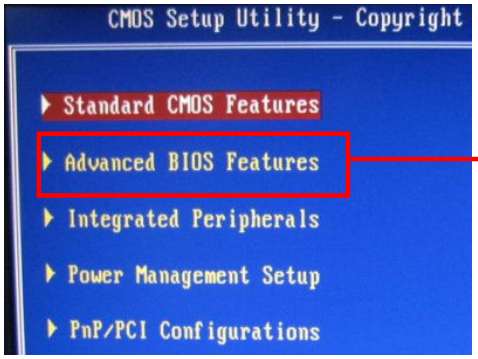


1-6-2-3 Step 3

Based on default setting, change BIOS setting.

- Set System Module to boot up DVR

1. Go to "Advanced BIOS Features"



Go to Advanced BIOS Feature

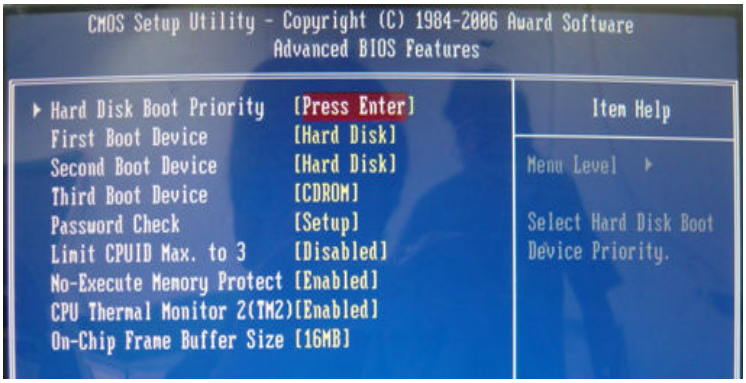
2. Go to "Hard Disk Boot Priority [Press Enter]"

CMOS Setup Utility - Copyright (C) 1984-2006 Award Software
Advanced BIOS Features
Hard Disk Boot Priority [Press Enter]
First Boot Device [Hard Disk]
Second Boot Device [Hard Disk]
Third Boot Device [CDROM]
Password Check [Setup]
Limit CPUID Max. to 3 [Disabled]
No-Execute Memory Protect [Enabled]
CPU Thermal Monitor 2(TM2)[Enabled]
On-Chip Frame Buffer Size [16MB]
Item Help
Menu Level
Select Hard Disk Boot Device Priority.

3. .Set "#1" as CH0 M. : [FDM601 128M] or [PQI IDE DiskOnModule]

Hard Disk Boot Priority
1. Ch0 M. : PQI IDE DiskOnModule
2. Ch1 M. : ST3200820A
3. Ch1 S. : WDC WD2500JB-00REA0
4. Bootable Add-in Cards
Item Help
Menu Level
Use <↑> or <↓> to select a device , then press <+> to move it up , or <-> to move it down the list. Press <ESC> to exit this menu.

- Set "First Boot Device" as [Hard Disk]


CMOS Setup Utility - Copyright (C) 1984-2006 Award Software
Advanced BIOS Features
Hard Disk Boot Priority [Press Enter]
First Boot Device [Hard Disk]
Second Boot Device [Hard Disk]
Third Boot Device [CDROM]
Password Check [Setup]
Limit CPUID Max. to 3 [Disabled]
No-Execute Memory Protect [Enabled]
CPU Thermal Monitor 2(TM2) [Enabled]
On-Chip Frame Buffer Size [16MB]
Item Help
Menu Level
Select Hard Disk Boot Device Priority.

1-7 Boot and Test

1-7-1 Connect Cameras

Please put cameras at fix positions and then finish adjusting and calibrating.
Connect cameras to Capture Cards with 5C2V coaxial cables. Capture Cards use BNC female connector. If your cameras only have F connector, you need to buy the "BNC to F" adapters.

1-7-2 Boot and Test

When first booting, system will enter the "Disk Management" option. Please refer to the user manual for the related procedures for the hard disk management. After finishing the disk management, the system will reboot and show the main monitoring screen as follows.

After rebooting, if DVR does not appear this GUI (Graphical User Interface), it means your display card (VGA card) doesn't match, please refer to the VGA Chip compatible List in Appendix I for the right display card (VGA) again.

1-8 Question and Answer

1-8-1 System requests to format Hard disk again after formatting hard disk

Ans: Hard disk failure.

Ans : IDE or SATA cable failure or with wrong connection.

1-8-2 System reboots continuously

Ans: There might be the serious bad track on the hard disk. Please change a new one

Ans: There are too many bad bits on the DRAM module. Please change a new one.

1-9 Compatible PC Hardware List

• Minimum Hardware Requirement

	SV2000
Channels	16
RAM	512M
CPU	P4 2.8G

!

Note

1. To ensure reliable DVR system, DVR will automatically detect system DRAM capacity. If DVR installs 1G DRAM, it will provide max 16 channels playback function. If DVR just installs 512MB DRAM or less, only four channels playback function will be provided.
2. To enhance the DVR performance, please enter BIOS menu to load optimized setup when you install the DVR.
3. When user installs PCI extension card to the DVR system, for example, HDD extension card or VGA extension card, certain video noise maybe appear. To avoid it, we don't recommend user installing PCI extension card to the DVR system. If user needs to install extension card, we recommend PCI-E extension card.
4. We don't support IDE and SATA HDD installed in the same DVR system.

• M/B Compatible List

Brand Name	Model	Chipset	# of PCI slot
ASUS	P5L-MX	Intel945G	2
ASUS	P5GZ-MX	Intel945GZ	2
Gigabyte	GA-945GCMX-S2	Intel 945GC	2
Gigabyte	GA-945PL-S3E	Intel 945PL	5

- ## VGA Card

Chip Supplier	Model	Recommend manufacturers
Nvidea	GeForce4 MX440	Gigabyte ASUS Leadtek
	GeForce2 MX400	
	MX4000 GPU	
	GeForce FX5500	
	GeForce FX5200	
	GeForce FX6200	
	GeForce 6500	
	GeForce 6600	
	GeForce 6201TC	
	GeForce 6200TC	

- ## RAID Support

Brand	RAID spec	Interface
ProWare	DataFree 7502 Hardware RAID Level 1	IDE to IDE Ultra DMA133 drives
Accusys	ACS-7500 Hardware RAID Level 1	IDE to IDE Ultra DMA100 drives
Areca	ARC-5010 Hardware RAID Level 0,1,3,5	IDE HDD to IDE or SATA
Areca	ARC-5030 Hardware RAID Level 0,1,3,5	SATA HDD to IDE or SATA

- ## HDD Extension Card

Brand	Model	Speed	Interface
HighPoint	Rocket133	133MB/sec	PCI
PROMISE	Ultra 133 TX2	133MB/sec	PCI
PROMISE	SATA 300 TX2Plus	Ultra ATA/133	PCI

- ## SCSI Extension Card

Brand	Model	Interface
Adaptec	AHA-2940UW	PCI
Adaptec	AHA-39160	PCI
Adaptec	AHA-29160	PCI

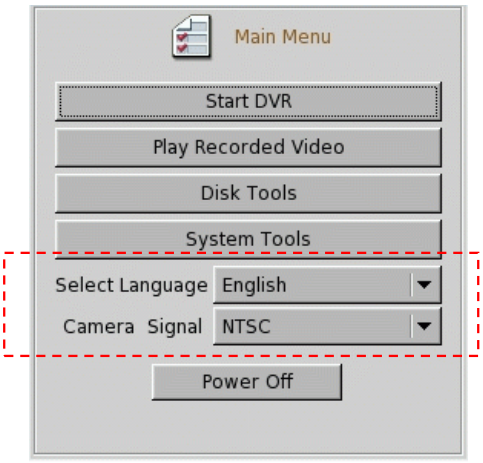
- **DVD/CD-RW Burner**

DVR Burner	Disk Type Support	Remarks
Pioneer	*DVD+R *DVD-R *DVD-RW *CD-R *CD-RW	Not support DVD+R/RW
Asus	*DVD+R *DVD-R *DVD-RW *CD-R *CD-RW	Not support DVD+R/RW
NEC	*DVD+R *DVD-R *DVD-RW *CD-R *CD-RW	Not support DVD+R/RW
Nu	*DVD+R *DVD-R *DVD-RW *CD-R *CD-RW	Not support DVD+R/RW

2. DVR Software Operation

2-1 DVR Main Menu

After powering on DVR, you could change some settings listed as below

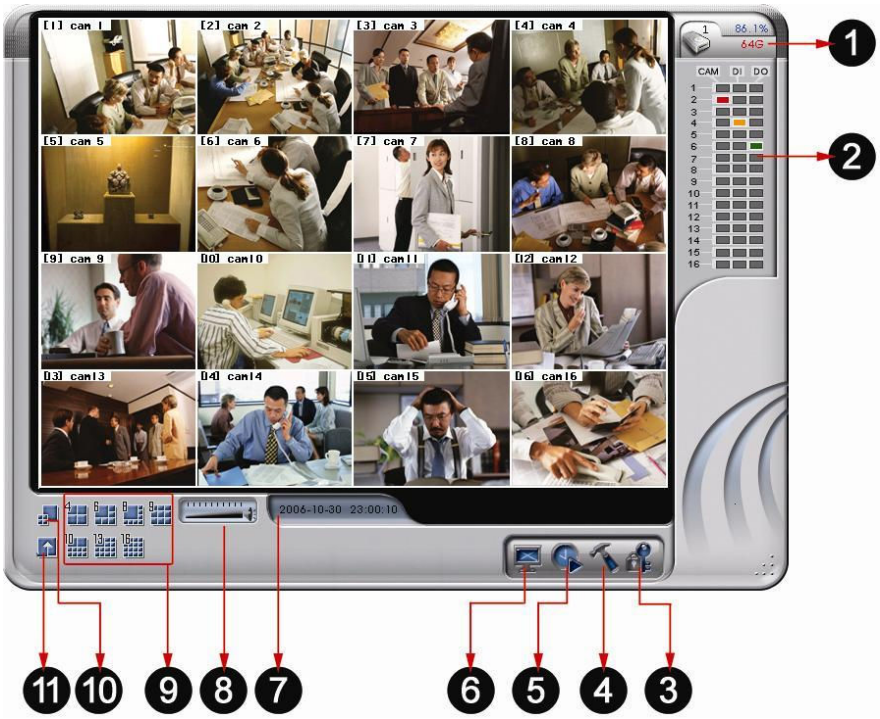


	Function	Description
1	Start DVR	Quick access to DVR main screen. If you don't click this button, DVR will automatically go into Main screen after 5 seconds
2	Play Recorded Video	Playback only. Quick access to playback mode
3	Disk Tool	Tools for HDD storage device including Scan Disk, S.M.A.R.T Diagnostic. Disk manager to assign camera to HDD and RAID configuration
4	System Tool	Reset Configuration
5	Select Language	Select preferred language (Traditional Chinese, English, Japanese, French, German, Portuguese, and Spanish)
6	Camera Signal	Switch DVR to NTSC or PAL mode according to camera signal type
7	Power Off	To turn off the DVR

!	**Note:** Please select your preferred **" Language"** and correct **"Camera Signal"** before you enter DVR main screen. Incorrect camera signal mode will cause abnormal camera signal input in DVR.

2-2 Main Screen

After starting DVR, below main screen will appear.



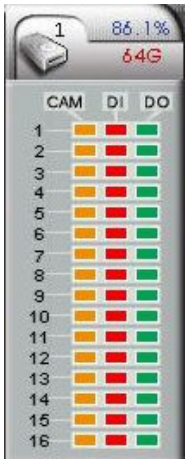
The controls in the main screen including:

	Function	Description
1	Storage Space	Indicate the HDD free space status
2	Recording/ DI/DO Status	Camera recording and alarm/sensor input and output status
3	Monitor Authority	Login to see the live display.
4	System Setting	Switch to system configuration mode to change system setting
5	Playback	Switch to playback mode to playback video files
6	Full Screen Monitoring	Monitor in full Screen
7	Date/Time	Display current date and time
8	Audio Volume	Adjust live monitoring audio volume
9	Display Mode	Select display divisions
10	Motion to Zoom	Activate zooming function when motion or alarm occurs
11	Sequencer	Display in sequence

2-3 Recording & DI/DO Status

The first column indicates the recording status of each camera:

Color	Recording Mode	Status
Orange ( )	Full recording	
Green ( )	Motion-sensor	Motion not detected
Red ( )	Motion-sensor	Motion detected & recording
Gray ( )	No recording	

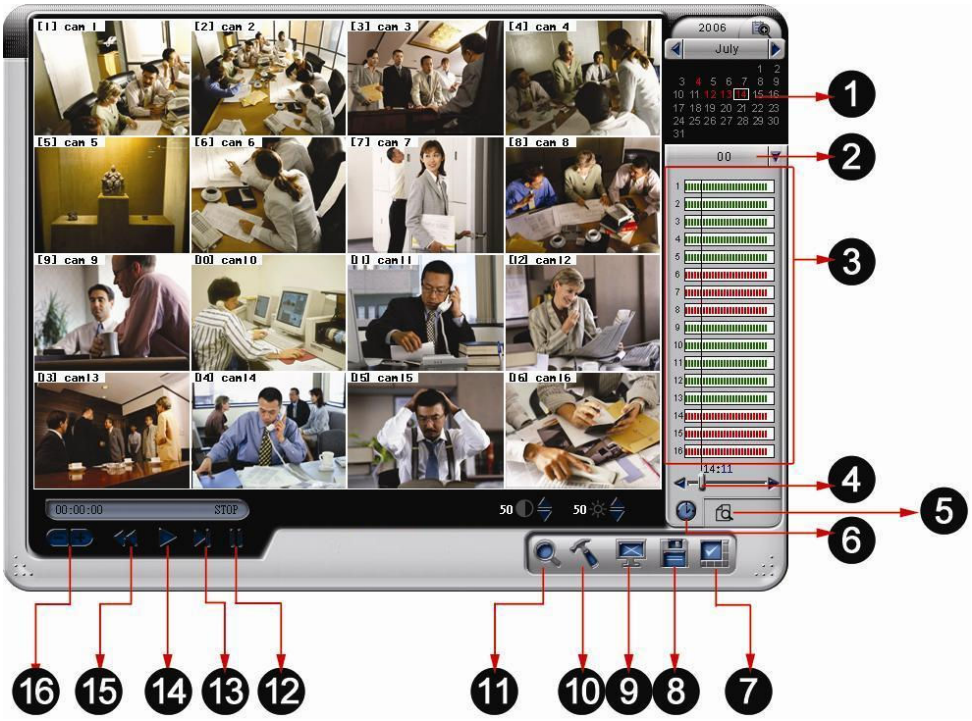


The second and third column shows the status of each DI and DO device.

Color	Status
Green ( )	Device not activated
Red ( )	Device activated

2-4 Playback

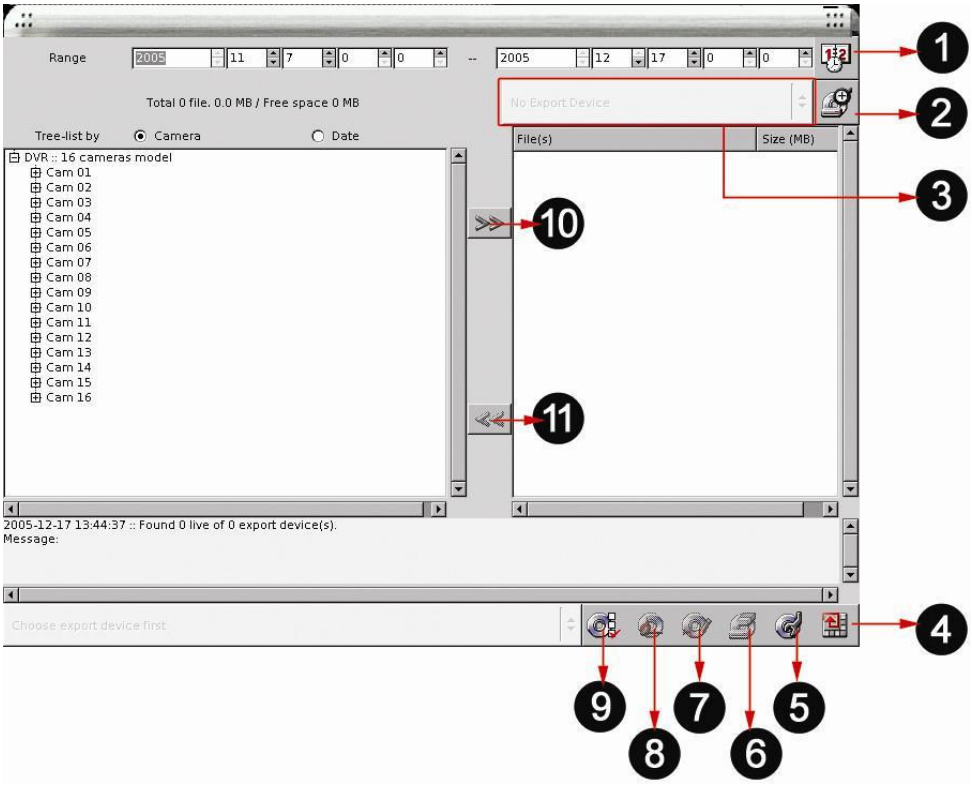
The controls of Playback function are as follows,



	Function	Description
1	Calendar	Select the calendar of playback
2	Hour menu	Select the hour of playback
3	Time Map	List the time slots with recorded video
4	Minute Bar	Select the minute of playback
5	Search Result	List all of logs of search result
6	Time Search	Search playback video by “Time” condition
7	Exit	Back to Main Screen
8	Snapshot/Backup	Catch images or backup videos to the storage device
9	Full Screen	Monitor in full Screen
10	Setup	Setup playback configuration including video and audio
11	Event Search	Search data by “Event” condition including System, and Device
12	Pause	Stop playback
13	Next frame	Jump to the next frame
14	Play	Play recorded video
15	Rewind	Rewind recorded video
16	Speed	Adjust playback speed

2-5 Backup the Video Files

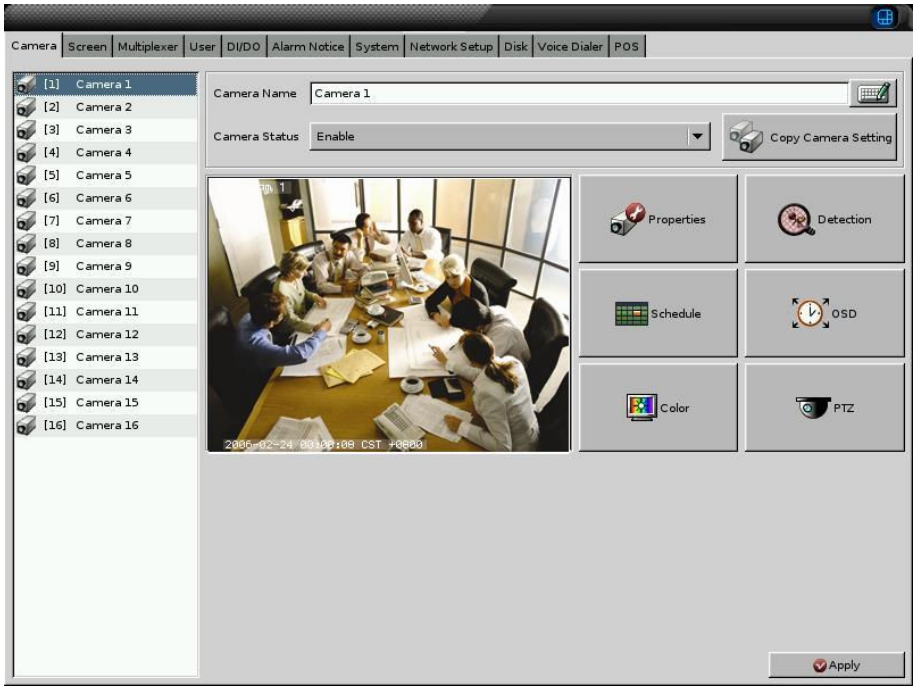
Click button and select **Export** to see the following screen:



Items	Function	Description
1	Reset Time Range	Reset the time range of burning data
2	Rescan Device	Rescan burning device
3	Backup Device	List the available backup device
4	Exit	Exit burning menu
5	Configuration	Set the burning configuration
6	Erase the disk	Erase the disc before burning data to optical disc
7	Export files	Save file to USB device
8	Burning disc	Start to burn data to optical device
9	Verify Disc	Verify if the files are successfully burned to the disc.
10	Select burning file	Select files for burning
11	Delete file	Move files for burning

2-6 System Settings

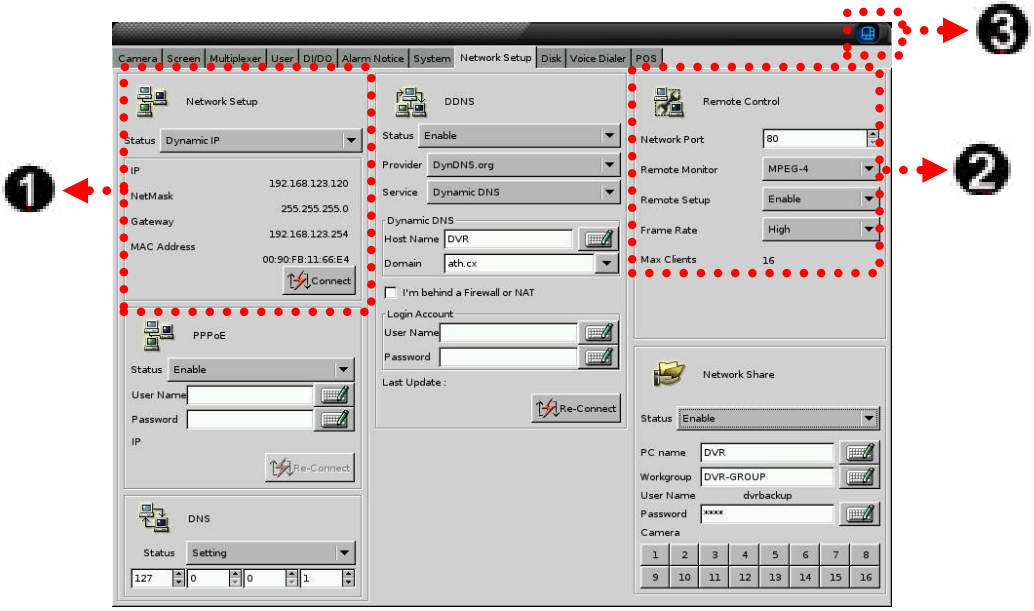
You could change DVR settings as below.



Items	Function	Description
1	Camera Setup	Camera recording configuration
2	Screen	Camera sequencer and split order configuration
3	Multiplexer(Optional)	Main and Quad monitor display configuration when installing an additional Quad card
4	User	Set user account for accessing DVR
5	DIDO	Alarm Input and output configuration
6	Alarm Notice	Alarm notice configuration including e-mail, ftp, SMS and alarm to zoom
7	System	System configuration including time sync, time zone, COM port and security
8	Network	DVR network configuration including DDNS, DHCP, PPPoE, remote access clients
9	Disk	Quickly check disk status.
10	Voice Dialer	Voice dialer configuration when alarm occurs.
11	POS	POS Device configuration

2-6-1 Network Setup for Remote Operation

To provide remote operation for IE Client and CMS, please follow the below to set up Network setting



2-6-1-1 Step 1:

Change the status of " Network Setup" from "Disabled" to "Dynamic IP" or "Static IP" according to the network environment your DVR exists. If you use "Static IP", please enter DVR IP, NetMask and Gateway address directly. If you use "Dynamic IP", DHCP server will automatically assign one set of IP address to DVR after finishing and existing the network setup.

2-6-1-2 Step 2:

Change "Remote Monitor" option menu to "MPEG-4" in the group of "Remote Control". You can adjust frame rate for remote monitor.

2-6-1-3 Step 3: Click " Exit" Button.

Wait some minutes to let DVR have enough time to grab IP address from DHCP server if you select Dynamic IP.

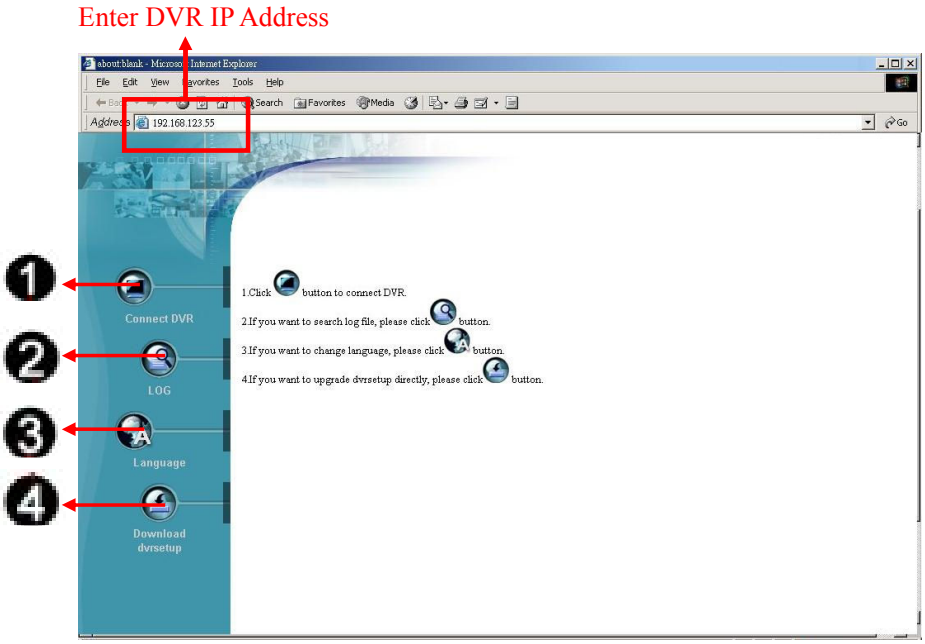
2-6-1-4 Step 4:

Log into System Setup again and change to network setup page. Click " Connect" button, DVR IP address will appear under the status of "Network Setup".

If you want to use remote function, please remember DVR IP address and go to "Chapter 2-7 Remote Operation" to start remote monitor, remote playback and remote control.

2-7 Remote Operation

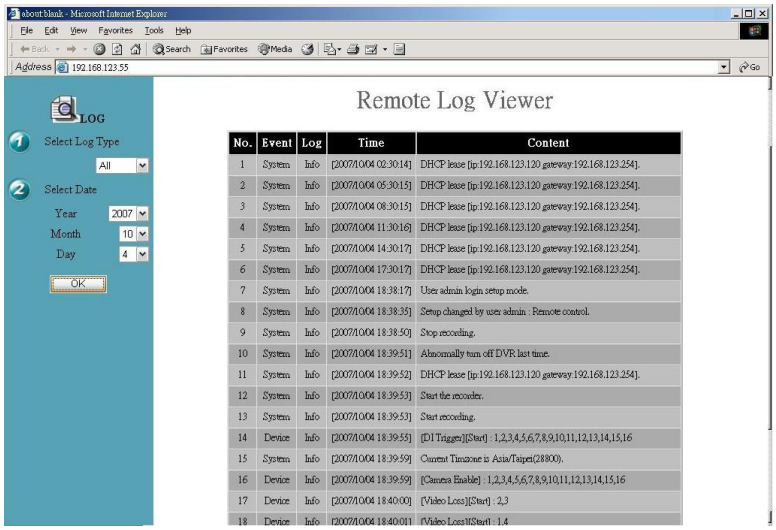
This DVR System allows you to monitor and control the system via network. Open an IE browser on the remote PC and enter the IP address of the DVR to see the screens below:


Enter DVR IP Address
192.168.123.55
Connect DVR
LOG
Language
Download dvrsetup
1.Click button to connect DVR.
2.If you want to search log file, please click button.
3.If you want to change language, please click button.
4.If you want to upgrade dvrsetup directly, please click button.

Items	Function	Description
1	Connect to DVR	Connect to DVR and start to connect DVR from remote site.
2	Log	Remote Log Query
3	Language	Support four-language operation including English Traditional Chinese, French and Japanese.
4	Download dvrsetup	Download dvrsetup when first time connecting DVR from remote site or upgrade dvrsetup when DVR with new version upgraded.

2-7-1 Remote DVR Log Query

You can query DVR log from remote IE browser. Click the button of “Log” in the front page to enter the Log Query menu. Select “Log Type” and “Query Interval” to search the log you want to see.


about:blank - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Address 192.168.123.55
LOG
Select Log Type
All
Select Date
Year 2007
Month 10
Day 4
OK
Remote Log Viewer
No. Event Log Time Content
1 System Info [2007/10/04 02:30:14] DHCP lease [ip:192.168.123.120 gateway:192.168.123.254].
2 System Info [2007/10/04 05:30:15] DHCP lease [ip:192.168.123.120 gateway:192.168.123.254].
3 System Info [2007/10/04 08:30:15] DHCP lease [ip:192.168.123.120 gateway:192.168.123.254].
4 System Info [2007/10/04 11:30:16] DHCP lease [ip:192.168.123.120 gateway:192.168.123.254].
5 System Info [2007/10/04 14:30:17] DHCP lease [ip:192.168.123.120 gateway:192.168.123.254].
6 System Info [2007/10/04 17:30:17] DHCP lease [ip:192.168.123.120 gateway:192.168.123.254].
7 System Info [2007/10/04 18:38:17] User admin login setup mode.
8 System Info [2007/10/04 18:38:35] Setup changed by user admin : Remote control.
9 System Info [2007/10/04 18:38:50] Stop recording.
10 System Info [2007/10/04 18:39:51] Abnormally turn off DVR last time.
11 System Info [2007/10/04 18:39:52] DHCP lease [ip:192.168.123.120 gateway:192.168.123.254].
12 System Info [2007/10/04 18:39:53] Start the recorder.
13 System Info [2007/10/04 18:39:53] Start recording.
14 Device Info [2007/10/04 18:39:55] [DI Trigger][Start] : 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16
15 System Info [2007/10/04 18:39:59] Current Timezone is Asia/Taipei(28800).
16 Device Info [2007/10/04 18:39:59] [Camera Enable] : 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16
17 Device Info [2007/10/04 18:40:00] [Video Loss][Start] : 2,3

2-7-2 Remote Operation Language

In V5.01, DVR support four languages for remote IE operation including English, Traditional Chinese, Japanese and French. The default setting of operation language will be according to the language of Windows Operation System in your PC. If you want to change the operation language, click the button of “ Language” in the front page and select the language you prefer.

2-7-3 Download DVR Client (dvrsetup)

The remote PC needs to install the DVR client when the first time you want to connect to DVR from remote IE. Click the “Download” icon and follow the instructions to install the DVR Client (dvrsetup program). If DVR with new version upgraded, you should also

upgrade dvrsetup.

2-7-4 Remote Monitor & Operation

By clicking the icon of " Connect DVR" and entering the user account and password, you can open the " Remote Monitor" screen as below,

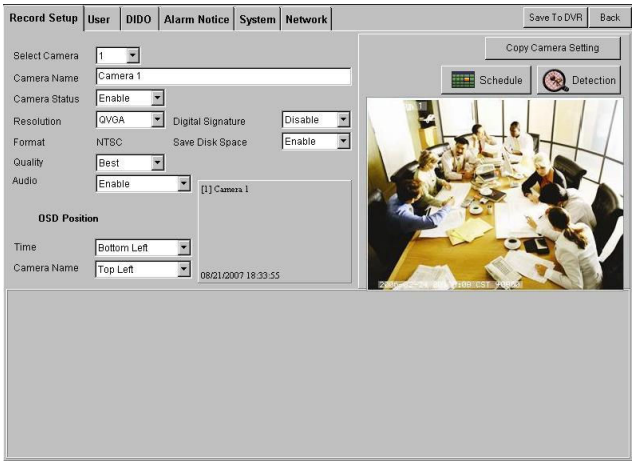
Items	Function	Description
1	Date/Time	Show the DVR date and time
2	Camera list	Camera display list
3	Setup	Set the network transmission preference and remote DVR setup
4	Snapshot	Catch display image and save to the storage device
5	Full screen	Display in full screen
6	Playback	Remote playback
7	Display Mode	Select display division
8	Log	DVR Log List

2-7-5 Remote Playback

Items	Function	Description
1	Calendar	Select playback calendar
2	Data Tree	List recorded data file
3	Select Playback Channel	Select playback channels
4	Zoom the Playback Channel	Select different zooming screen
5	Full Screen	Playback in full screen
6	Snapshot	Catch playback image and save to the disk
7	Save Files	Download and backup the recorded files
8	Change Split Mode	Change playback division
9	Time Map	Select playback in minute

2-7-6 Remote Setup

When you click Remote Setup icon, it will show the setup menu as below. The remote setup operation are almost the same as DVR system setup. Please refer to ”Chapter 2-6 System Setting”.



2-7-7 DVR Player

The DVR Player is used in three applications:

1. To watch the video clip downloaded from the DVR;
2. To watch the video clip burned on the CD-R/RW;
3. To verify the Digital Signature of the video clip.

You can find the DVR Player in the windows program files.